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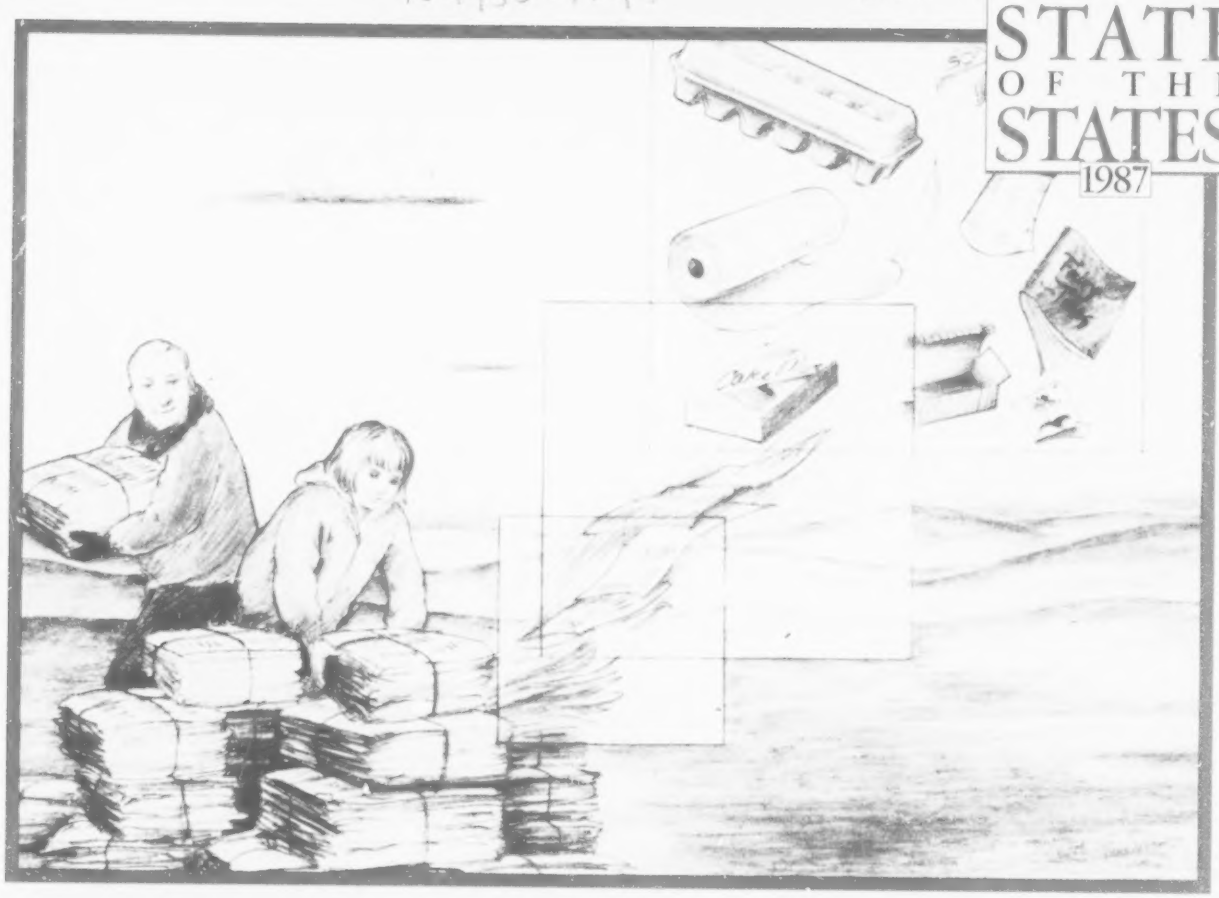
THE STATE OF THE STATES 1987



WASTE & RECYCLING

3

APPENDIX

FUND FOR RENEWABLE ENERGY & THE ENVIRONMENT

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Introduction

The Solid Waste Appendix, one of six appendices designed to supplement the data presented in the 1987 State of the States report, has been compiled for a more detailed look at solid waste management. In addition to providing in-depth data on the fifty state solid waste management programs, this appendix contributes to networking activities, information sharing and constructive debate on critical environmental policy questions.

Information from the main report--state rankings, primary map, brief text, and primary matrix--are presented in the forward section of the packet. Additional matrix information and maps, as well as solid waste management contacts are also included.

Solid waste disposal practices included in this report focus almost exclusively on landfill methods, the prevalent method of waste management. Budgetary information, state population, solid waste tonnage, and the numbers of landfills, surface impoundments, and land application units have been included to provide an overall sense of the size of the individual programs. Wherever possible, the information has been broken down according to the type of landfill in question, whether municipal, industrial or demolition debris, to avoid unnecessary and misleading groupings. Data not considered in the ranking of individual state programs such as information on the number of mass burn or incineration plants under construction or in operation within a given state has also been included as supplemental information for the reader.

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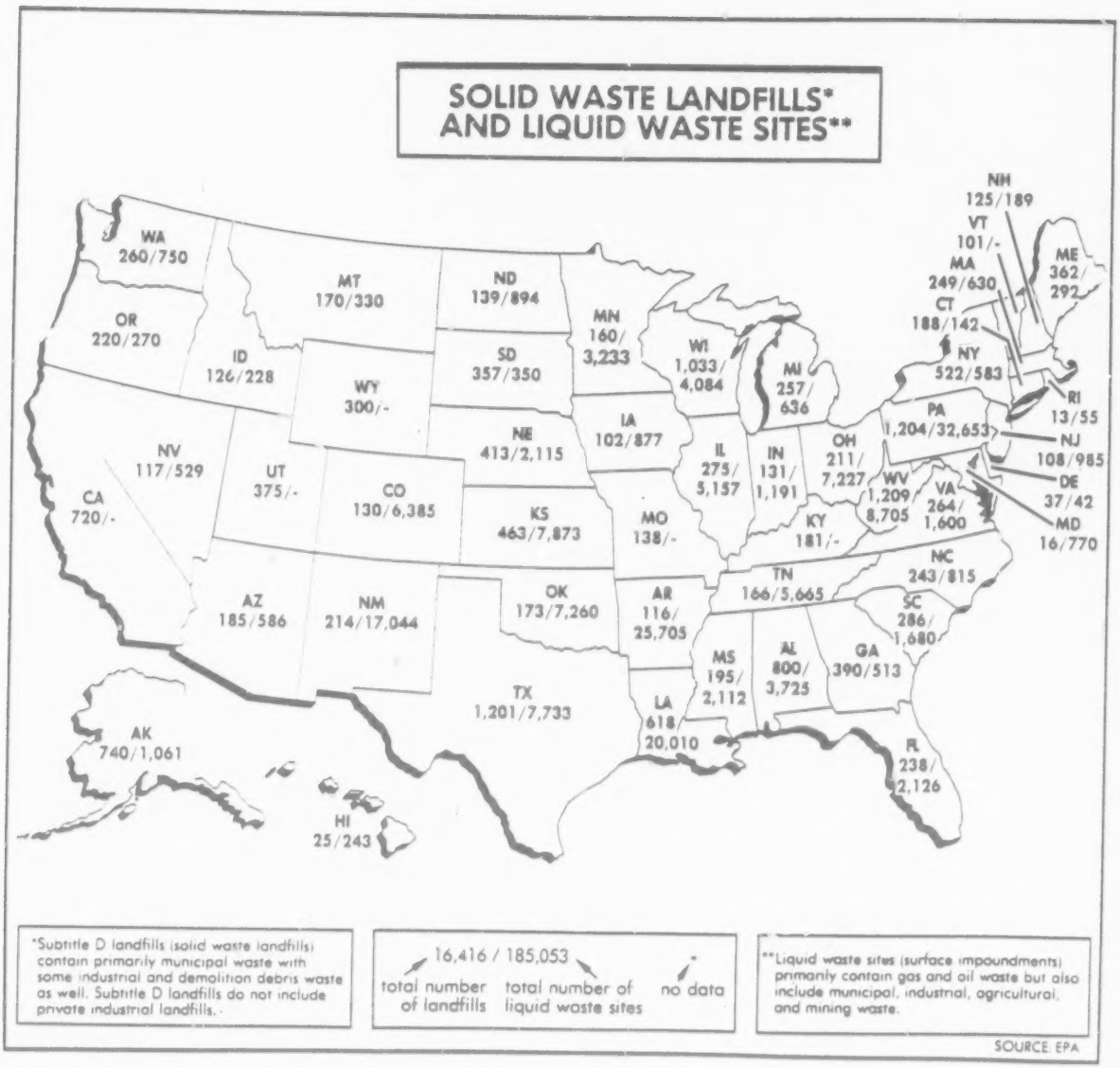
STATE ABBREVIATIONS

AL	ALABAMA
AK	ALASKA
AZ	ARIZONA
AR	ARKANSAS
CA	CALIFORNIA
CO	COLORADO
CT	CONNECTICUT
DE	DELAWARE
FL	FLORIDA
GA	GEORGIA
HI	HAWAII
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
IA	IOWA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
ME	MAINE
MA	MASSACHUSETTS
MI	MICHIGAN
MN	MINNESOTA
MS	MISSISSIPPI
MO	MISSOURI
MT	MONTANA
NE	NEBRASKA
NV	NEVADA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NY	NEW YORK
NC	NORTH CAROLINA
ND	NORTH DAKOTA
OH	OHIO
OK	OKLAHOMA
OR	OREGON
PA	PENNSYLVANIA
RI	RHODE ISLAND
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
TN	TENNESSEE
TX	TEXAS
UT	UTAH
VT	VERMONT
VA	VIRGINIA
WA	WASHINGTON
WV	WEST VIRGINIA
WI	WISCONSIN
WY	WYOMING

STATE PROGRAM RANKINGS: HOW STATES MEASURE UP

	AIR PROGRAMS	SOIL CONSERVATION PROGRAMS	GROUNDWATER PROGRAMS	HAZARDOUS WASTE PROGRAMS	SOLID WASTE PROGRAMS	RENEWABLE ENERGY & ENERGY CONSERVATION	TOTAL	RANK
AL	3	3	2	3	3	2	16	26
AK	7	3	3	2	2	1	18	25
AZ	7	3	7	5	2	3	27	19
AR	1	3	2	5	3	4	18	25
CA	10	3	7	9	9	10	48	2
CO	4	6	4	3	4	3	24	21
CT	9	6	9	4	9	7	44	4
DE	1	8	6	3	4	2	24	21
FL	7	4	9	8	6	7	41	7
GA	4	5	7	4	3	3	26	20
HI	4	4	3	2	2	4	19	24
ID	2	1	6	1	2	6	18	25
IL	7	9	5	7	7	6	41	7
IN	6	5	4	6	7	8	36	10
IA	5	10	5	5	7	7	39	8
KS	2	5	8	8	4	2	29	17
KY	7	3	1	6	8	3	28	18
LA	5	3	3	7	2	1	21	23
ME	3	6	7	6	6	8	36	10
MD	3	8	7	6	6	4	34	12
MA	6	4	8	9	6	8	41	7
MI	8	7	8	9	8	3	43	5
MN	5	6	5	9	9	4	38	9
MS	1	3	2	4	2	2	14	28
MO	5	6	7	8	1	4	31	15
MT	2	5	6	3	1	6	23	22
NE	4	6	6	2	6	7	31	15
NV	2	6	4	2	2	7	23	22
NH	6	5	5	7	5	4	32	14
NJ	9	6	7	10	10	5	47	3
NM	1	2	8	5	1	6	23	22
NY	5	5	10	8	8	7	43	5
NC	8	7	8	6	6	7	42	6
ND	1	3	4	2	3	3	16	26
OH	8	8	4	5	5	4	34	12
OK	5	5	5	4	7	3	29	17
OR	6	2	7	5	7	8	35	11
PA	8	6	5	5	3	5	32	14
RI	6	4	6	4	7	3	30	16
SC	6	5	7	5	2	6	31	15
SD	1	8	6	2	2	4	23	22
TN	3	3	4	7	5	7	29	17
TX	7	2	2	5	3	7	26	20
UT	3	4	3	2	1	3	16	26
VT	3	3	5	6	4	7	28	18
VA	8	7	6	2	3	7	33	13
WA	8	1	6	5	5	3	29	17
WV	2	5	2	4	1	1	15	27
WI	9	8	8	7	8	9	49	1
WY	1	3	8	1	2	1	16	26


SOLID WASTE LANDFILLS* AND LIQUID WASTE SITES**
WA 260/750
OR 220/270
CA 720/-
ID 126/228
NV 117/529
MT 170/330
WY 300/-
UT 375/-
AZ 185/586
CO 130/6,385
NM 214/17,044
ND 139/894
SD 357/350
NE 413/2,115
KS 463/7,873
OK 173/7,260
TX 1,201/7,733
MN 160/ 3,233
IA 102/877
MO 138/-
AR 116/ 25,705
LA 618/ 20,010
WI 1,033/ 4,084
IL 275/ 5,157
MS 195/ 2,112
MI 257/ 636
IN 131/ 1,191
KY 181/-
TN 166/5,665
AL 800/ 3,725
OH 211/ 7,227
WV 1,209 8,705
VA 264/ 1,600
NC 243/815
SC 286/ 1,680
GA 390/513
FL 238/ 2,126
PA 1,204/32,653
NY 522/583
NH 125/189
VT 101/-
MA 249/630
CT 188/142
ME 362/ 292
RI 13/55
NJ 108/985
DE 37/42
MD 16/770
AK 740/1,061
HI 25/243
*Subtitle D landfills (solid waste landfills) contain primarily municipal waste with some industrial and demolition debris waste as well. Subtitle D landfills do not include private industrial landfills.
16,416 / 185,053
total number of landfills
total number of liquid waste sites
no data
**Liquid waste sites (surface impoundments) primarily contain gas and oil waste but also include municipal, industrial, agricultural, and mining waste.
SOURCE: EPA

SOLID WASTE MANAGEMENT--THE BIG PICTURE

Americans produce 150 million tons of municipal trash each year--nearly 3.5 pounds per person per day. According to Franklin Associates, Inc., 37 percent of this residential and commercial waste is paper. Another 18 percent is yard waste, 8 percent is food waste, 10 percent is glass, 10 percent is metals, 7 percent is plastic, and the remainder is wood, rubber, textiles and miscellaneous inorganics. Currently about 8 percent of municipal trash is recycled, 5 percent is incinerated, and 87 percent is disposed in landfills.

Industry produces an additional amount of waste estimated to be as much as 350 million tons per year. Most industrial wastes are dumped in private landfills that are unregulated and unmonitored.

The first signs of a mounting solid waste crisis came in the early 1960s when increasing volumes of trash and unregulated dumping raised concerns about serious health and environmental threats. In response, Congress passed the Solid Waste Disposal Act of 1965. The act provided assistance to states undertaking research, surveys, and innovative solutions for waste management. Five years later, uncontrolled dumping was still the norm. Congress then passed the Resource Recovery Act of 1970 to promote state action. Additional funds for research and construction of advanced design landfills were provided and the federal government kept an advisory role. Most significantly, the act officially identified recycling as an economical and efficient means of reducing and managing waste for the first time.

A few years later, in 1976, Congress passed the Resource Conservation and Recovery Act to address the growing complexity of waste management problems. Nearly 200,000 surface impoundments--pits, ponds, and lagoons containing industrial, agricultural, and municipal liquid wastes--were also covered by the law. Most importantly, the law encouraged states to develop solid waste management plans and established minimum siting and operating standards for disposal facilities. As of October 1985, twenty-two states had solid waste management plans fully approved by EPA. But federal assistance and funding originally promised were not available.

In the past few years federal support has swung behind the option of burning trash to create energy. But controversy over pollution from incineration plants has spurred a new wave of alternative solid waste discussion. Increasingly, state and city governments are considering new solid waste management systems that include large scale recycling, composting, and refuse-derived fuel plants. Alternative waste management advocates claim that landfilling and incineration can be minimized by programs which encourage 5-10 percent waste reduction, recycling 50 percent of the waste stream, and 25-30 percent composting.

SOLID WASTE MANAGEMENT SNAPSHOT

The best working model for solid waste management programs and policies is New Jersey. Despite a heavy reliance on construction of incineration plants, New Jersey is the first state to target 25 percent recycling for its counties, and require ten year plans from its twenty-two waste districts. The state also conducts frequent inspections and substantial monitoring for groundwater contamination at landfill sites.

RANKING NOTES

States were ranked on a scale of one to ten on the strength of their environmental policies. The rank is not meant to judge particular environmental conditions in each state, but considers environmental problems as a need for program strength. The rankings were based on a number of factors in managing solid waste and reducing the threats of pollution of air, soil, and water by solid waste facilities. Particular attention was given to recycling as the most cost-effective and environmentally benign method of waste management.

Landfill disposal, the traditional waste management strategy, was assessed for enforceable protection requirements and standards. Also considered were the extent and frequency fo monitoring programs (including groundwater, surface water, air, and methane monitoring), and the total number of inspections for 1984. These measurs were compared to the total number of solid waste landfills and estimated tonnage of solid waste generated by each state.

State recycling programs were ranked according to the extent of legislative and program activity, focusing on both waste reduction incentives and market development. Indicators of a comprehensive recycling program included: mandated waste reduction, litter control legislation, bottle bills, recycling goals as a percentage of the total waste stream, the amount and dependability of funding, a statewide versus local approach, tax incentives, state procurement of recycled products, and the diversity of recycling programs to include used oil and tires as well as metals and paper.

Summary of State Solid Waste Management Activity

- o despite a decade of legislative activity only three states have mandated waste reduction;
- o nine states have passed "bottle bill" legislation to encourage recycling equipment, and five states are doing research into uses of recycled materials;
- o twenty-two staes have EPA-approved solid waste management plans;
- o six states have partial approval from EPA for solid waste management plans;
- o ten states have adopted plans and have submitted them to EPA for review;
- o two states have submitted no plan

SOLID WASTE MATRIX

	SOLID WASTE MANAGEMENT PLAN 1-5*	REGULATIONS FOR LANDFILL SAFETY AND CONTROL 1-4*	RECYCLING PROGRAM 1-4*	TOTAL MONITORING OF GROUNDWATER	TOTAL INSPECTIONS*	FREQUENCY OF INSPECTIONS	NUMBER OF GROUNDWATER VIOLATIONS	NUMBER OF SUBTITLE D LANDFILLS	NUMBER OF SUBTITLE D SURFACE IMPOUNDMENTS	ESTIMATED SOLID WASTE TONNAGE (metric)
AL	1	3	4	134	730	twice/yr	30	800	3,725	6,983
AK	5	3	3	20	550	< once/2 yrs	7	740	1,061	875
AZ	1	4	4	7	142	once/yr	5	185	586	5,343
AR	1	4	3	21	254	twice/yr	7	116	25,705	4,111
CA	1	1	2	265	2,467	once/yr	24	720	—	44,839
CO	3	2	4	36	42	twice/yr	16	130	6,385	5,562
CT	1	1	2	115	263	twice/yr	87	188	142	5,520
DE	2	3	3	12	58	once/yr	6	37	42	1,073
FL	1	1	3	174	738	twice/yr	76	238	2,126	19,208
GA	1	3	4	26	710	once/yr	3	390	513	10,215
HI	4	4	3	1	106	> 4x/yr		25	243	1,818
ID	3	3	4	8	361	twice/yr	6	126	228	1,752
IL	1	3	2	246	744	once/yr	76	275	5,157	20,144
IN	1	3	3	70	1,572	> 4x/yr	8	131	1,191	9,622
IA	1	2	2	88	432	—	—	102	877	5,093
KS	3	1	4	42	963	twice/yr		463	7,873	4,267
KY	1	1	2	92	1,468	> 4x/yr	—	181	--	6,515
LA	1	3	4	—	—	—	—	618	20,010	7,809
ME	3	1	3	61	475	twice/yr	115	362	292	2,023
MD	4	3	3	63	—	> 4x/yr	1	16	770	7,611
MA	1	3	2	43	87	once/yr	136	249	630	10,147
MI	1	2	1	99	780	4x/yr	203	257	636	15,881
MN	1	1	1	124	850	> 4x/yr	103	160	3,233	7,284
MS	1	3	4	6	481	4x/yr		195	2,112	4,547
MO	3	—	4	—	—	—	—	138	—	8,764
MT	3	4	4	20	240	twice/yr		170	330	1,442
NE	2	1	2	20	45	once/yr	4	413	2,115	2,811
NV	4	3	4	0	46	once/yr		117	529	1,594
NH	3	3	3	33	421	4x/yr	52	125	189	1,710
NJ	4	1	1	98	604	> 4x/yr	50	108	985	13,151
NM	5	4	4	1	409	twice/yr	4	214	17,044	2,492
NY	4	1	1	99	1,110	once/yr	315	522	583	31,036
NC	1	2	3	79	85	once/2 yrs	1	243	815	10,789
ND	2	3	4	18	573	twice/yr		139	894	1,201
OH	1	3	2	53	—	4x/yr	12	211	7,227	18,816
OK	1	1	3	107	677	twice/yr	13	173	7,260	5,772
OR	2	3	1	20	300	once/yr	4	220	270	4,680
PA	1	4	1	195	2,120	> 4x/yr	67	1,204	32,653	20,827
RI	3	3	3	13	156	other	8	13	55	1,684
SC	4	4	3	0	1,558	4x/yr	124	286	1,680	5,775
SD	3	4	4	10	410	4x/yr	12	357	350	1,236
TN	1	3	3	70	930	4x/yr	23	166	3,665	8,525
TX	1	1	4	95	—	once/yr	27	1,201	7,733	27,981
UT	4	—	4	—	—	—	—	375	—	2,891
VT	3	4	3	77	490	> 4x/yr		101	—	928
VA	4	4	3	92	1,064	4x/yr	52	264	1,600	9,863
WA	2	4	2	25	26	< once/2 yrs	69	260	750	7,611
WV	4	4	3	31	730	once/yr	8	1,209	18,705	3,416
WI	2	2	1	148	2,005	once/yr	48	1,033	4,084	8,341
WY	4	4	4	99	307	once/yr	7	300	—	894

FOOTNOTES TO THE SOLID WASTE MATRIX

1 Data as of June 1986. Symbols mean:
1=EPA approved
2=EPA partially approved
3=adopted plans and submitted them for EPA review
4=drafts of state plan are under state or EPA review
5=has not submitted a plan
(source: US EPA, State Programs Branch, Office of Solid Waste, Washington, DC, 1986).

2 1=examination of 31 specified landfill requirements: all or most requirements were explicitly included in state regulations
2=approximately half the 31 requirements are specifically included under state regulations with a few requirements not enforceable under any policies.
3=few requirements are specifically included in state legislation, though all or most are enforceable under general standards and policies.
4=hardly any enforceable requirements
(source: US EPA, "State Subtitle D Program Questionaires," unpublished, Office of Solid Waste, Washington, DC, 1986).

3 Symbols mean:
1=the most comprehensive recycling programs with respect to state funding, market development and mandating waste reduction. New York's and Pennsylvania's proposed programs are included in this category.
2=state funded programs with an emphasis on recycling legislation and market development.
3=state programs with 0 or limited funding but nevertheless have taken a step, or several steps, towards 1) reducing litter, and/or 2) developing markets for recycled products.
4=state programs with zero or limited funding that restrict efforts to some state purchase of recycled paper, a recycling hotline, etc., or leave recycling to the private sector.
(source: information gathered primarily from back issues of Resource Recycling, and Biocycle magazines).

4 Represents the frequency with which 60% of the landfills are inspected in each state. "<"=less than; ">"=greater than.
(source: US EPA, "State Subtitle D Program Questionnaires," unpublished, Office of Solid Waste, Washington, DC, 1986).

5 Based on 3.5 pounds per person per day multiplied by state population.
(source: National Solid Waste Management Assoc., Basic Data: Solid Waste Amounts, Composition and Management Systems, Washington, DC, Oct. 1985).

1984 SOLID WASTE BUDGETS

TABLE I

STATE	TOTAL BUDGET	PERCENT STATE FUNDING	PERCENT FEDERAL FUNDING	PERCENT LICENSE OR USER FEES	PERCENT OTHER
AL	$540,000	64	31	5	0
AK	$290,000	100	0	0	0
AZ	$660,000	28	72	0	0
AR	$157,471	34	50	16	0
CA	$9,476,255	N/A	0	N/A	0
CO	$70,000	65	32	3	0
CT	$760,000	90	10	0	0
DE	$9,346,656*	0	0	0	0
FL	$698,333	100	0	0	0
GA	$669,662	94	6	0	0
HI	$75,000	100	0	0	0
ID	$160,663	83	0	0	17
IL	$300,000	100	0	0	0
IN	$1,296,936	33	67	0	0
IA	$330,457	100	0	0	0
KS	N/A	N/A	N/A	N/A	N/A
KY	N/A	N/A	N/A	N/A	N/A
LA	N/A	100	0	0	0
ME	$300,000	95	5	0	0
MD	$475,854	100	0	0	0
MA	$278,813	30	70	0	0
MI	$2,552,300	85	15	0	0
MN	$990,000	85	10	5	0
MS	$162,975	100	0	0	0
MO	N/A	N/A	N/A	N/A	N/A
MT	N/A	72	28	0	0
NE	$180,000	58	0	42	0
NV	N/A	100	0	0	0
NH	$376,979	80	19	1	0
NJ	$4,667,000	79	1	20	0
NM	N/A	100	0	0	0
NY	N/A	100	0	0	0
NC	N/A	N/A	N/A	N/A	N/A
ND	$255,000	25	75	0	0
OH	$1,111,695	N/A	N/A	N/A	N/A
OK	$1,639,368	100	0	0	0
OR	$909,515	89	8	3	0
PA	$675,000	100	0	0	0
RI	$120,000	N/A	N/A	N/A	N/A
SC	$178,000	91	9	0	0
SD	$15,000	100	0	0	0
TN	N/A	100	0	0	0
TX	N/A	100	0	0	0
UT	$250,000	100	0	0	0
VT	$160,000	85	0	0	0
VA	$250,000	100	15	0	0
WA	$548,281	100	0	0	0
WV	$172,000	81	0	0	0
WI	$981,659	230	4	15	0
WY	N/A	N/A	N/A	N/A	N/A

STATE SOLID WASTE MANAGEMENT PROGRAMS

TABLE II

STATE	Monitoring at Landfills: GROUNDWATER	SURFACE WATER	AIR EMISSIONS	METHANE	Solid Waste Tonnage Received: LESS THAN 30 TONS/DAY	30-500 TONS/DAY	MORE THAN 500 TONS/DAY	Mass Burn Plants: OPERATIONAL	UNDER CONSTRUCTION OR PERMITTING
AL	120M,10I,4D	5M,10I	0	5M	40M,80I,300D	70M,60I,150D	14M,36I,50D	1	0
AK	11M,7I,2D	3M, unk I	0	unk M	440M,268I,21D	10M	1M	1	0
AZ	7M	0	0	3M	17M	72M	12M	0	0
AR	19M,2I	16M,2I	0	0	65M,26I,4D	21M	0	3	0
CA	200M,60I,5D	250M,70I,15D	250M,80I,5D	150M,60I,5D	161M,65I,150D	168M,30I,45D	53M,5I,5D	0	7
CO	31M,3I,2D	9M,1D	0	16M	71M	45M,3I,1D	8M,2D	0	0
CT	65M,28I,20D	82M,32I,25D	1M,2D	20M	51M,21I,49D	37M,11I,11D	4M	1	3
DE	3M,9I	3M,3I	0	3M,1I	15D	8I,7D	3M,1I,3D	0	1
FL	136M, 5I	48M	0	2M	54M,13I,10D	65M,1I	21M	4	3
GA	25M,1I	90M,2I,2D	0	8M	151M,75I,79D	53M,20I	11M,1D	0	1
HI	1M	0	0	0	12M,1D	10M	1M	0	0
ID	7M,1I	1M	0	2M,1I	88M,11I,7D	17M,1I	1M	1	0
IL	171M,65I,10D	4M,6I	0	0	N/A	N/A	N/A	1	0
IN	64M,5I,1D	0	0	20M	30M,1I,10D	72M,6I,4D	8M	0	2
IA	79M,8I,1D	47M	0	1M	26M,4I,8D	52M,6I	1M	0	0
KS	37M,5I	6M,1I,1D	0	3M	93M,50I,267D	34M,17I	2M	0	0
KY	82M,10I	19M,5I	0	82M	114M,53I	7M,2I	2M,3I	•	•
LA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0
ME	45M,11I,1D	20M,9I,1D	0	3M	286M,3I,29D	14M,19I,3D	0	1	1
MD	43M,15I,5D	43M,15I,5D	0	0	10M,17I,12D	25M,4I	8M	1	1
MA	40M, unk I	2M, unk I	0	N/A	118M,unk I,36D	71M,4D	6M	3	2
MI	50M,29I,20D	30M,10I,3D	0	0	50M,15D	37M,39I,6D	10M	0	0
MN	95M,27I,2D	5M,3I	2M	2M	61M,20I,22D	41M,7I,5D	4M	2	1
MS	3M,3I	0	0	0	107M,10I,8D	5M	0	1	0
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	1
MT	20M, unk I	unk I	unk I	1M, unk I	130M,unk I,30D	10M,unk I	unk I	1	0
NE	20M	0	0	0	363M,15I	5M	2M	0	0
NV	0	0	0	0	57M	48M,1D	11M	0	0
NH	30M,3D	30M,3D	0	3M	N/A	N/A	N/A	3	2
NJ	72M,17I,9D	5M,2I	5M	5M	45M,17I,13D	13M,5D	14M	0	5
NM	1M	0	0	0	182M	21M,4D	7M	0	0
NY	84M,12I,3D	20M,8I,3D	0	47M	199M,14I,89D	160M,10I,10D	40M	5	8
NC	74M,5I	85M	85M	0	12M,25I,81D	114M,5I	6M	1	0
ND	7M,1II	0	0	0	98M,6I,17D	13M,5I	0	0	1
OH	6M,7I,N/A D	N/A	N/A	N/A	N/A	N/A	N/A	1	0
OK	85M,12I,10D	15M,6I	0	5M	66M,12I,9D	23M, J	46M,5D	2	0
OR	15M,3I,2D	8M,2I	0	0	89M,94I,9D	18M,5I,3D	2M	0	0
PA	103M,62I,3D	32M,12I	0	3M	55M,935I,11D	58M,119I	18M,8I	1	3
RI	12M,1D	12M,1D	0	0	9M,1D	2M	1M	0	1
SC	0	4M	0	0	10M,62I,43D	76M,23I	0	0	0
SD	10M	0	0	0	0	195M,150D	5M,7I	0	0
TN	60M,10I	30M,5I	0	0	25M,30I,7D	71M,16I,7D	10M	4	0
TX	79M,unk I,14D	unk I	unk I	unk I	636M,unk I,64D	266M,unk I,64D	47M,unk I,4D	2	0
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	1
VT	70M,7I	71M,7I	0	0	62M,8I,22D	9M	0	0	1
VA	62M,21I,9D	45M,9I,9D	1M	5M,3D	70M,22I,28D	71M,26I,15D	14M,3I,8D	7	1
WA	20M,5I	30M	10M	10M	120M,unk I&D	30M,unk I&D	7M,unk I&D	0	0
WV	6M,25I	25M,10I	0	0	165M,308I,101D	35M,45I	5I	0	0
WI	92M,50I,6D	10M,1I	4M	16M,1I	868M,24I,37D	40M,35I,7D	8M,4I	1	0
WY	24M,75I	0	0	6M	N/A	N/A	N/A	0	0

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
unk=unknown
• = Kentucky has one mass burn plant that will be operational pending modifications and another under construction or permitting that is on hold

LANDFILL INSPECTIONS

TABLE III

STATE	Number of Inspections: MUNICIPAL LANDFILLS	INDUSTRIAL LANDFILLS	DEMOLITION DEBRIS LANDFILLS	Frequency of Inspections: NEVER	LESS THAN ONCE EVERY TWO YEARS	ONCE EVERY TWO YEARS	ONCE A YEAR	TWICE A YEAR	FOUR TIMES A YEAR	MORE THAN FOUR TIMES A YEAR	OTHER
AL	500	50	180					100%I&D	100% M		
AK	225	300	25	5%M,35%I	20%M,50%I,90%D	25%M,5%I	35%M,5%I,10%D	5%M&I	10%M		
AZ	112	0	30		100%D		100%M				
AR	214	31	9				20%M,I&D	80%M,I&D			
CA	2,237	100	130	7%M	8%M	19%M,5%I	16%M,10%I	14%M,35%I	11%M,30%I	25%M,20%I	
CO	39	2	1	20%M	20%M	25%M	30%M	5%M,100%I&D			
CT	135	35	88	69%I			9%M&D,23%I	71%M&D,8%I	15%M&D	5%M&D	
DE	6	27	25			1%D	99%M,I&D	13%M&I			
FL	574	22	142	100%D					27%M	73%M	
GA	479	48	183				50%M&D,70%I	30%M&D,25%I	20%M&D,5%I		
HI	106	0	0	8%M	8%M		8%M			76%M	
ID	332	13	16	1%M,8%I			92%I	75%M,100%D	15%M		9%M
IL	322	386	35				75%M,100%D	25%M		100%I	
IN	1,320	94	168							100%M,I&D	
IA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KS	514	134	315				82%D	100%I,18%D	100%M		
KY	N/A	N/A	N/A						100%D	100%M&I	
LA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ME	330	45	50			45%M,50%D	20%M,15%I,40%D	15%M,60%I,10%D	15%M,10%I	5%M,15%I	
MD	704	N/A	25							100%M,I&D	
MA	35	0	2		13%M	13%M,90%D	30%M,10%D	25%M	5%M	2%M	
MI	350	190	240				20%D	5%M&I	30%M&I,30%D	5%M&I	
MN	700	50	90				25%I	50%M&D	25%I%D	100%M,25%D	
MS	337	47	95					25%I,50%D	100%M,75%I		50%D
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT	200	10	30	100%I		5%M,25%D	50%M,75%D	25%M	15%M	5%M	
NE	30	10	5	88%M	5%M,25%I,10%D	1%M	5%M,65%I,90%D	1%M,10%I			
NV	45	0	1	5%M	15%M	20%M	47%M,100%D	10%M	3%M		
NH	350	10	61					10%M&D	90%M&D,100%I		
NJ	430	100	24							100%M,I&D	
NM	405	0	4					75%M,50%D	25%M,50%D		
NY	991	35	94	25%D	19%M,15%I&D	20%M,32%I,16%D	20%M,37%I,13%D	24%M,8%I,20%D	3%M,4%D	14%M,8%I,2%D	
NC	35	0	0	100%I&D		100%M					
ND	545	15	13		5%D	60%D	5%M,35%I,25%D	50%I,10%D	45%M,15%I	50%M	
OH	900	300	N/A						100%M&I		
OK	540	48	89				50%I	75%M,50%I,100%D	25%M		
OR	173	96	31			10%M,25%I,7%D	50%M,60%I,35%D	25%M&D,15%I	10%M,8%D	5%M,25%D	
PA	1,356	720	44						100%D	10 0%M&I	
RI	144	N/A	12								100%M&D
SC	854	416	288				1%D	20%D	6%M,72%I,21%D		94%M,28%I,58%D
SD	350	10	50			100%D	75%M		25%M,100%I		
TN	625	234	71						100%M,I&D		
TX	2,357	N/A	262		90%I	10%I	66%M,47%D	34%M,53%D			
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT	355	25	110			12%I	36%I	10%M,12%I	20%M,30%I	70%M,10%I, 100%D	
VA	736	168	160	1%M,6%I,12%D	2%I		7%M,21%I,20%D	10%M,8%I,25%D	33%M,30%I,25%D	49%M,33%I ,18%D	
WA	24	2	0		40%M,100%I&D	30%M	15%M	10%M	5%M		
WV	200	200	330	10%M,2%I,50%D	5%I	5%M&I	5%M,30%I&D	10%M,20%M,20%D	35%M&I	40% M,3%I	
WI	1,700	230	75			10%M,3%I,23%D	75%M,40%I,57%D	3%M,14%I,9%D	3%M,19%I,5%D	9%M,24% I,6%D	
WY	143	145	19				75%M,100%I&D	20%M	5%M	5%M	

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-a

Requirements Specifically Included in State Regulation

STATE	NATURAL LINERS	SYNTHETIC LINERS	LOCATION STANDARDS	LEACHATE COLLECTION AND REMOVAL	LEACHATE ANALYSIS	LEACHATE TREATMENT	GROUNDWATER PROTECTION STANDARD	GROUNDWATER MONITORING	CORRECTIVE ACTION FOR GROUNDWATER CONTAMINATION	AIR PROTECTION STANDARD	AIR EMISSIONS MONITORING	METHANE MONITORING	METHANE CONTROLS	CORRECTIVE ACTION FOR OFF-SITE METHANE MIGRATION	SURFACE WATER PROTECTION STANDARDS	SURFACE WATER MONITORING
AL			x				I,D	x		x		I,D	I,D			
AK			x		x		x			x					x	
AZ							x			x					x	
AR			x													
CA	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I	I	x	x	x	x	I,M
CO			x					x		x	x	x	I			
CT			x				x	x	x			x	x	x	x	x
DE	I,M	I,M		I,M	I,M	I,M		I,M				I,M	I,M			
FL	I	I	I,M	I,M	I,M	I,M	I,M	I,M	I,M				M	I,M	I,M	I,M
GA																
HI								M								
ID			x	x		x		x					x			
IL	x						x	x							I,M	
IN			x							M		x	x	x	x	
IA			x	x		x	x	x							x	
KS			x				I,M	I,M	I,M	x		I,M	x	x	I,M	
KY	I,M	I,M	x	I,M		I,M	x	I,M		I,M			I,M		x	
LA	I,M	I,M	I,M	I,M				I,M			I,M		I,M		I,M	
ME	I,M		x	x		I,M	x	I,M	x	x			I,M	I,M	x	x
MD							M,D	M,D	M	M,D			M,D		M,D	M,D
MA			x													
MI	I,M	I,M	x	I,M	I		x	x				I,M	I,M		x	
MN			I,M				I,M	I,M	I,M	I,M		I,M		I,M	I,M	I,M
MS	I,M		x				x			x			I,M	I,M	I,M	
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT			M,D					M								
NE			I,M	I,M		I,M	I,M	I,M	M			I,M	I,M	I,M	I,M	
NV			x				x			x		x			x	
NH								x	x							
NJ	M,D	x	x	x	x	x	x	x	x	x	I,D	x	x	x	x	I
NM			x												x	
NY	I,M	I,M	x	I,M	I,M	I,M	x	I,M	x				I,M	x	x	I,M
NC							I,M	I,M	I,M	x	x	x			x	x
ND							x	x		x			M		x	x
OH			I,M			I,M		I,M							I,M	
OK	M	M	x	M,D	x	x	x	x	x	x		I,D	x	M	x	x
OR			x	x			x	x	x				x		x	
PA	x	x	x	x				x					x	x		
RI			x				x	x	x	x			x	x	x	x
SC								I,M								
SD			x							I					x	
TN			x			x	x	x	x	x					x	x
TX	M,D	M,D	x	M,D			M,D	x	M,D	M,D		M,D	M,D	M,D	x	
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT			I,M					I,M								I,M
VA																
WA				M			x			x			M		x	
WV															x	
WI			x			x	x	x	x	x		x	x	x	x	x
WY							x		x	x					x	

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Demolition Debris Landfills

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-D

Requirements Specifically Included in State Regulation

STATE	CORRECTIVE ACTION FOR SURFACE WATER CONTAMINATION	RUN-OFF COLLECTION AND REMOVAL	RUN-OFF ANALYSIS	RUN-OFF TREATMENT	RUN-ON CONTROL	RESTRICTIONS ON RECEIPT OF LIQUID WASTES	RESTRICTIONS ON TYPES OF SUBTITLE D WASTE RECEIVED	DAILY COVER	ENDANGERED SPECIES CRITERIA	DISEASE VECTOR CRITERIA	SAFETY CRITERIA: BIRD HAZARDS	SAFETY CRITERIA: UNCONTROLLED ACCESS	CLOSURE STANDARDS	POST-CLOSURE MONITORING	FINANCIAL RESPONSIBILITY
AL					x			x	x	x	x	x	x	x	
AK						x	x	x		x	x	x	x	x	
AZ								M		x					
AR					x	x	x	M		x		x	x	x	x
CA	I,M	I,M	I,M	I,M	I,M	x	x	I,M	x	x	x	x	I,M	I,M	I,M
CO		x			x			I,M		x	x	x	x	x	
CT	x				x	x	x	I,M	x	x	x	x	x	x	x
DE		I,M					I,M	I,M				I,M	I,M	I,M	
FL	I,M	I,M	I,M	I,M	I,M	D	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M
GA							x	I,M		x		x	x	x	
HI							M	M		M			M		
ID		x			x	x		x		x		x			
IL							x	x		x	x	x	x	x	x
IN	x	x				x		I,M	x	x	x	x	x	I,M	
IA					x		x	x		x	x	x	x	x	
KS	x	x	x	x			x	x	x	x	x	x		x	x
KY		I,M			x	I,M	x	I,M	x	x		x	x	x	x
LA					I,M	I,M	x	I,M	I,M						I,M
ME	x	x	x		x	x	x	x	x	x	x	x	x	x	
MD	M				M,D	M,D		M,D	M,D	M,D		M,D	M,D		
MA							x	x		M		x	x		•
MI		x			x	x	D	I,M			x	x	x	x	x
MN				I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	
MS							x	x	I,M	x	I,M	x	x	x	
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT								M				M			
NE	I,M				I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M
NV		x					x	x		x	x	x	x		
NH						x	x	x	x	x	x	x			
NJ	x	x	x	x	x	x	x	x	x	x	M,D	I,D	x	x	x
NM					x			x					x		
NY	x		I,M		I,M	x	x	I,M	x	x	x	x	x	x	x
NC						x	x	x	x	x	x	x	x	x	
ND		x			x	x	x	x		x	M	x	x		
OH	I,M					I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M	
OK	x	x	x	x	x	M,D	x	M,D		x	x	x	x	x	x
OR		x							x		x		x	x	x
PA								x							
RI	x	x			x	x	x	x	x	x	x	x	x		
SC					I,M	I,M	I,M	I,M				I,M	I,M		
SD							I	x				x	x		
TN	x				x	x	x	x				x	x	x	x
TX	M,D				x	M,D	M,D	x	x	x	x	M,D	x	x	x
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT						x	x	x				I,M			I,M
VA								x					x		
WA								M							
WV								M	M,D	M,D	M,D				
WI	x				x			x	x	x	x	x	x	x	x
WY								x		x					

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Demolition Debris Landfills
• = Limited to private facilities

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-c

Requirements Enforced Under General Standards and Policies

STATE	CORRECTIVE ACTION FOR SURFACE WATER CONTAMINATION	RUN-OFF COLLECTION AND REMOVAL	RUN-OFF ANALYSIS	RUN-OFF TREATMENT	RUN-ON CONTROL	RESTRICTIONS ON RECEIPT OF LIQUID WASTES	RESTRICTIONS ON TYPES OF SUBTITLE D WASTES RECEIVED	DAILY COVER	ENDANGERED SPECIES CRITERIA	DISEASE VECTOR CRITERIA	SAFETY CRITERIA: BIRD HAZARDS	SAFETY CRITERIA: UNCONTROLLED ACCESS	CLOSURE STANDARDS	POST-CLOSURE MONITORING	FINANCIAL RESPONSIBILITY
AL	x	x	x	x		x	x								
AK	x	x	x	x	x				x					x	x
AZ						D	D	I,D	x		x	x	x	x	
AR	x	x	x	x				I,D	I,M		x				
CA	D	D	D	D	D			D					D	D	D
CO	x		x			D	D	D							
CT		x	x	x				D							
DE	I,M		I,M	I,M	I,M	x	D	D	I,M	I,M	I,M	D	D		I,M
FL	D														
GA	x	x	x	x	x	x		D	x		x				
HI						M			M						
ID									x		x		x	x	
IL		x	x	x	x	I,M									
IN					x		x								M,D
IA	x	x	x	x		x									x
KS					x	x							x		
KY	I,M		I,M	I,M											
LA	x	D	I,M	I,M		D		D			D	D			
ME				x											x
MD	I,D	x	x	x	I	I	x	I	I	I	x	I	I	x	I,D
MA	x	x	x	x	x	x	x		x		x			x	
MI	x							D	x	x					
MN	x	x	x	D	D	D	D	D	D	D	D	D	D	D	x
MS	x	x	x	x	x	x			D		D				x
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT	M,D	M,D			M,D		M,D			M		D	M		
NE															
NV	x				x										
NH	x	x	x	x	x								x	x	
NJ											I	M			
NM	x									x					
NY		x	D	x	D			D							
NC	x	x	x	x	x										
ND	x		x	x					x		I,D			x	x
OH		I,M	I,M												
OK						I		I							
OR	x		x	x	x	x	x	x		x		x			
PA	x	x	x	x	x	x	x		x	x	x	x	x	x	x
RI															
SC	x				D	D	D	D				x			
SD						D	M,D			x					
TN		x	x	x					x	x	x				
TX	I	M,D	x	x		I	I					I			
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT		I,M			I,M								x	I,M	I,M
VA	x	x	x	x	x	x	x		x	x	x	x		x	
WA	x	M					I,D						x		
WV	I,M	I,M	I,M	I,M	x	x	x	I				x	x	x	
WI		x	x	x		x	x								
WY	x	x	x	x	x	x	x				x	x	x	x	

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Industrial Landfills

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-d

Requirements Enforced Under General Standards and Policies

STATE	NATURAL LINERS	SYNTHETIC LINERS	LOCATION STANDARDS	LEACHATE COLLECTION AND REMOVAL	LEACHATE ANALYSIS	LEACHATE TREATMENT	GROUNDWATER PROTECTION STANDARD	GROUNDWATER MONITORING	CORRECTIVE ACTION FOR GROUNDWATER CONTAMINATION	AIR PROTECTION STANDARD	AIR EMISSIONS MONITORING	METHANE MONITORING	METHANE CONTROLS	CORRECTIVE ACTION FOR OFF-SITE METHANE MIGRATION	SURFACE WATER PROTECTION STANDARDS	SURFACE WATER MONITORING
AL	x	x		x	x	x	M				x	M	M	x	x	x
AK	I,D	I,D		I,D				x	x		x	x				x
AZ			x					x	M			x	x	x		
AR	x							x							x	x
CA	D	D	D	D	D	D	D	D	D	M,D	M,D					D
CO	x	x		x	x	x	x		x				M,D	x	x	x
CT	x	x		x	x	x				x	x					
DE			I,M				I,M		I,M	I,M	I,M			I,M	I,M	I,M
FL	M	M							D	I		M				
GA	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HI							M		M						M	M
ID	x								x	x					x	x
IL			x	x	x	x				x	x	x				x
IN	M	M		M	x	x	x	x	x	I,D	x					x
IA	x				x				x	x	x					x
KS	M			I,M	I,M	I,M					I,M					x
KY					I,M				I,M					I,M		I,M
LA	D	D	D			x	x		x	x		I,M				x
ME		I,M			x	D		D			x	x	D	D		
MD	x	x	x	x	x	x	I	I	I,D	I	x	x	I	x	I	I
MA	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x
MI						M			x	x				I,M		x
MN	x	x	D	x	x	x	D	D	D	D	x	D	x	D	D	D
MS	D	x		x	x	x		x	x		x	x	D	D	D	x
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT	M	M		M	M		M		M	M,D					M,D	M,D
NE	I,M	I,M			I,M				I							I,M
NV								x	x		x					x
NH	x	x	x	x	x	x	x			x	x	x	x	x	x	x
NJ	I															M,D
NM										x						
NY	D	D		D	D	D		D		x	x	x	D			D
NC	I,M	I,M	I,M	I,M	I,M	I,M							x	x		
ND	x	x	x	x	x	x			x		x	M		M		
OH	I,M	I		I,M	I,M		I,M		I,M	I,M	I,M	I,M	I,M	I,M	I,M	I,M
OK	I,D	I		I								M		I,D		
OR	x	x			x	x				x	x	x		x		x
PA						x	x		x	x	x	x			x	x
RI																
SC	x		x				x	D							x	x
SD							x	x	x							
TN	x	x		x	x						x	x	x	x		
TX	I	I		I	x	x	I		I	I	M,D	I	I	I		x
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT			D	I,M	I,M		I,M								I,M	
VA	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x
WA		M			M	x			x		M			M		
WV	I,M	I	x	I,M	I,M	I	I	x	I			M	M			I,M
WI	x			x	x						x					
WY	x	x	x	x	x	x		x			x	x	x	x		x

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Demolition Debris Landfills

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-e

No Enforceable Requirements

STATE	CORRECTIVE ACTION FOR SURFACE WATER CONTAMINATION	RUN-OFF COLLECTION AND REMOVAL	RUN-OFF ANALYSIS	RUN-OFF TREATMENT	RUN-ON CONTROLS	RESTRICTIONS ON RECEIPT OF LIQUID WASTES	RESTRICTIONS ON TYPES OF SUBTITLE D WASTES RECEIVED	DAILY COVER	ENDANGERED SPECIES CRITERIA	DISEASE VECTOR CRITERIA	SAFETY CRITERIA: BIRD HAZARDS	SAFETY CRITERIA: UNCONTROLLED ACCESS	CLOSURE STANDARDS	POST-CLOSURE MONITORING	FINANCIAL RESPONSIBILITY
AL				x											x
AK	x	x	x	x	x	I,M	I,M								x
AZ															
AR															
CA				x		I,M	I,M		x						x
CO															
CT	D	D	D	D	D				D	D	D			D	D
DE		D	D	D	I,M		D	D	D	D	D	D	D	D	D
FL															x
GA	M	M	M	M	M						M	M		M	M
HI															
ID	x		x	x			x								x
IL	x								x						
IN			x	x				D	M					D	I
IA									x						
KS															
KY											I,M				
LA			D	D	D				D		D			D	D
ME															
MD															
MA															
MI			x	x			I,M								
MN															
MS															
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT	I	I	x	x	I	x	I	I	x	I,D	x	I	I,D	x	x
NE	D	x	x	x	D	D	D	D	D	D	D	D	D	D	D
NV			x	x		x			x					x	x
NH															x
NJ															
NM		x	x	x		x	x		x		x	x		x	x
NY															
NC															x
ND															
OH	D	D	D	x	x	D	D	D	D	D	D	D	D	D	x
OK									x						
OR															
PA															
RI			x	x										I,M	I,M
SC		x	x	x					x	x		D	D	x	x
SD	x	x	x	x	x	x			x		x			x	x
TN															
TX															
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT	x	D	x	x	D				x	x	x	D		D	D
VA															x
WA		I,D	x	x	x	x	M	I,D	x	x	x	x		x	x
WV	D	D	D	D				D	I	I	I				x
WI															
WY									x						x

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Demolition Debris Landfills

SUBTITLE D LANDFILL REQUIREMENTS

TABLE IV-f

No Enforceable Requirements

STATE	NATURAL LINERS	SYNTHETIC LINERS	LOCATION STANDARDS	LEACHATE COLLECTION AND REMOVAL	LEACHATE ANALYSIS	LEACHATE TREATMENT	GROUNDWATER PROTECTION STANDARD	GROUNDWATER MONITORING	CORRECTIVE ACTION FOR GROUNDWATER CONTAMINATION	AIR PROTECTION STANDARD	AIR EMISSIONS MONITORING	METHANE MONITORING	METHANE CONTROLS	CORRECTIVE ACTION FOR OFF-SITE METHANE MIGRATION	SURFACE WATER PROTECTION STANDARDS	SURFACE WATER MONITORING
AL									x		x					
AK	M	M		M		x							x	x		
AZ	x	x		x	x	x			I,D		x					x
AR		x		x	x	x	x		x	x	x	x	x	x		
CA																
CO																
CT																
DE	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
FL										M,D	x	I,D	I,D	D	D	D
GA																
HI	M	M	M	M	M	M				M	M	M	M	M		
ID		x			x		x				x	x		x		
IL		x							x					x		
IN	I,D	I,D		I,D												
IA		x										x	x	x		
KS		M														
KY											I,M	I,M				
LA				D	x			D			D	D	D	x		
ME	D	D														
MD																
MA																
MI	D	D		D	x	I,D					x	D	D	D		
MN																
MS																
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT	I,D	I,D	I	I,D	I,D	I,D	x	I,D	I,D	I,D	x	x	x	x	I	I
NE	D	I,D	D	D	D	D	D	D	D	x	x	D	D	D	D	D
NV	x	x		x	x	x						x		x		
NH																
NJ																
NM	x	x		x	x	x	x	x	x		x	x	x	x		x
NY																
NC	D	D	D	D	D	D	D	D	D							
ND												I,D	I,D	I,D		
OH	D	M,D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
OK		D									x					
OR																
PA					I,M											
RI	x	x		x	x	x					x	x				
SC		x		x	x	x			x	x	x	x	x	x		
SD	x	x		x	x	x				M,D	x	x	x	x		x
TN																
TX											I					
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT	x	x		D	D	x	D	D	x	x	x	x	x	x	D	D
VA											x					
WA	x	I,D	x	I,D	I,D			x			I,D	x	I,D	I,D		x
WV	D	M,D		D	D	M,D	M,D	D	M,D	x	x	I,D	I,D	x		D
WI		x														
WY																

I=Industrial Landfills
M=Municipal Landfills
D=Demolition Debris Landfills
x=Industrial, Municipal, and Demolition Debris Landfills

SUBTITLE D LANDFILL RELEASE PREVENTION/MANAGEMENT METHODS

TABLE V

Total Number of Landfills With:

STATE	SYNTHETIC LINERS	NATURAL LINERS	NATURAL RENOVATION (leachate attenuation)	LEACHATE COLLECTION SYSTEMS	LEACHATE TREATMENT	LEACHATE RECIRCULATION	RUN-ON/RUN-OFF CONTROLS	METHANE CONTROLS	RESTRICTIONS ON RECEIPT OF LIQUID WASTES
AL							40	2	124
AK	7	4	4	4			82		56
AZ	1			1				1	
AR		116		4	4		116		116
CA	17	50	50	70	32	67	495	60	380
CO	1	20	3	3	1	1	49		44
CT			184	3	1		184	71	189
DE	3	8	26	12	9	2	6	3	34
FL	14	33	117	14	10	3	84	12	5
GA	1	5	385	5			348	4	390
HI		1		1		1	1		24
ID		3	121	3	1		21	1	33
IL		235					210	190	50
IN		131	94	16	2	14	25	5	10
IA	1	93	93	8	2	6	93	25	93
KS		244	244	2		3	6	2	
KY	3	104		87	2	75	150	4	181
LA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ME	2	19	69	22	9	2	75	12	362
MD	3	6	66	9	10		72		76
MA	2	20		33	27	6	8	22	
MI	11	24	10	45	3	20	120	20	257
MN		4	160	3	2		160	2	160
MS			130						125
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT		15					80		140
NE		3	413	1	1		45	3	88
NV							25		5
NH		2	123	2		2	125	20	125
NJ	5	6		11	11		36	41	107
NM	1		221				188		3
NY	8	15		23	22	1	55	55	55
NC	1			1	1			1	162
ND	1	18					139		139
OH		5					211	13	211
OK		35		1			173	15	173
OR	1	11	220	10	8	1	220	3	220
PA	21	55	111	69	44	12	204	17	204
RI				1			13		2
SC							214		214
SD	0	0	0	0	0	0	0	0	0
TN		166	166	2	4	1	166		166
TX	4	187	852	6		6	1,044	1,044	1,044
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT	2		100	2	2		100	5	100
VA	3	94	26	23	16	7	240	10	264
WA	1			2				2	
WV		24	2	35	35	2	133	1	106
WI	1	27	921	58	58		144	79	4
WY	2	8	120				245	1	238

SUBTITLE D LANDFILL VIOLATIONS

TABLE VI

STATE	GROUNDWATER CONTAMINATION	GROUNDWATER MONITORING PROGRAM DEFICIENCIES	SURFACE WATER CONTAMINATION	AIR CONTAMINATION	METHANE CONTROL DEFICIENCIES	OPERATIONAL DEFICIENCIES	OTHER
AL	20	10	30	10	10	124	
AK	4	3	3	2	unk	76	1
AZ	5			22	2	36	10
AR	4	3	21			86	
CA	7	17	79	44	17	188	85
CO	13	3	2			11	
CT	12	74	6	4	2	120	
DE	6		3			28	
FL	44	25	10	1	9	92	9
GA	2	1	6	11	3	226	
HI				21		136	
ID	3	3	1	7		58	
IL		N/A		N/A		N/A	
IN	2	6	43	5	5	131	
IA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
KS						137	
KY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ME	77	31	104	90	1	276	
MD	1		2			76	
MA	16	120	N/A	2		92	
MI	42	61	N/A	N/A	N/A	145	
MN	83	20		2		160	
MS						102	
MO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MT				12		62	22
NE	1	3			2	35	
NV			1	10		30	
NH	26	26	22	73	6	125	
NJ	30	N/A	N/A	N/A	25	108	
NM	4	N/A	26	54		100	41
NY	22	293	105	35	6	181	
NC		1	9		1	45	3
ND						106	
OH	12	N/A	13	N/A	8	211	7
OK	7	6	60			158	
OR	4		11	24		58	
PA	36	31	8	3	15	46	
RI	4	4				3	
SC	76	48				129	
SD	2	10	1	5		60	
TN	3	20	6		2	50	
TX	18	9	62	108		679	63
UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VT						96	
VA	11	41	38	23	1	205	
WA	69		37	41	3	57	
WV	8		4	33	1	56	
WI	38	10	5	252	4	690	
WY	1	6				36	

unk = unknown

STATE RECYCLING PROGRAMS

TABLE VII-a

STATE	Funding: STATE GRANT	Funding: OTHER	LITTER CONTROL BILL	BOTTLE BILL	LOCAL PROGRAMS	LOCAL MANDATORY RECYCLING	STATEWIDE MANDATORY RECYCLING	USED OIL RECYCLING CONTACT	USED TIRE RECYCLING PROGRAM
AL								x	
AK					x				
AZ									
AR			x						
CA	x	x	x		x				
CO			x		x				
CT	x		x	x	x	x			
DE				x				x	
FL									
GA		x							
HI								x	
ID									
IL	x	x	x						
IN								x	
IA		x	x	x					
KS									
KY	x		x					x	
LA	x							x	
ME	x			x	x	x		x	
MD						x		x	
MA	x	x	x	x	x	x		x	
MI	x	x	x	x	x			x	
MN	x	x	x		x	x		x	x
MS									
MO								x	
MT		x							
NE	x	x	x		x			x	
NV								x	
NH	x	x	x			x			
NJ	x	x	x		x	x		x	
NM								x	
NY	x			x	x	x		x	
NC	x							x	
ND					x				
OH	x	x	x						
OK									
OR			x	x	x			x	
PA	x		x		x	x		x	
RI	x	x	x				x	x	
SC	x							x	
SD									
TN			x						
TX					x			x	x
UT								x	
VT				x				x	
VA	x	x	x					x	
WA	x	x	x		x			x	x
WV								x	
WI	x		x		x	x		x	
WY									

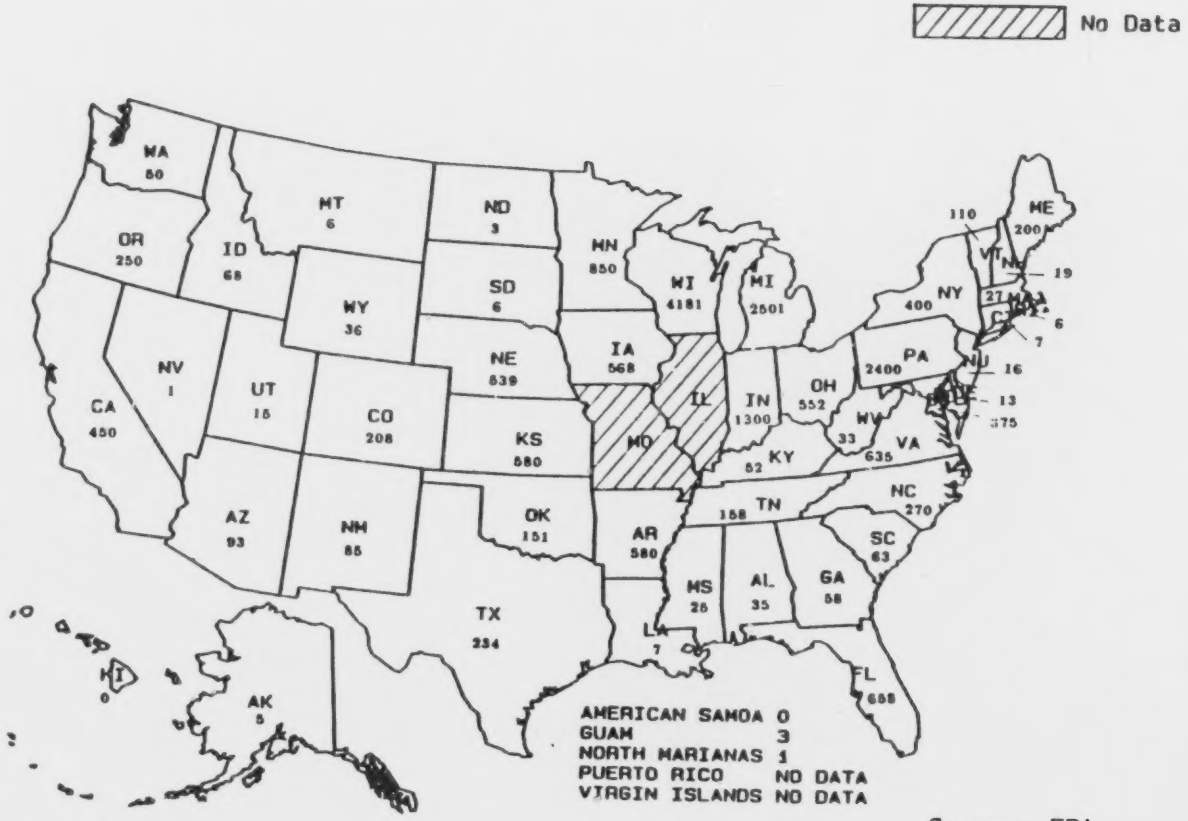
STATE RECYCLING MARKETS DEVELOPMENT

TABLE VII-b

STATE	CONSUMER EDUCATION	RESEARCH IN RECYCLED MATERIALS USE	FINANCES RESEARCH	STATE PROCUREMENT	FINANCIAL/TECHNICAL ASSISTANCE	TAX CREDITS (sales &/or equipment)
AL						
AK		x			x	
AZ						
AR						x
CA	x	x	x	x	x	
CO						
CT					x	
DE						
FL		x		x		x
GA						
HI					x	
ID						
IL			x	x	x	x
IN						x
IA						
KS						
KY						x
LA						
ME						
MD	x			x		
MA					x	
MI		x		x		
MN	x			x	x	
MS						
MO				x		
MT						
NE					x	
NV					x	
NH	x					
NJ	x		x		x	x
NM						
NY				x		
NC						x
ND						
OH		x		x		
OK	x					
OR				x		x
PA	x					
RI				x		
SC						x
SD						
TN						
TX						
UT						
VT				x		
VA						x
WA				x		
WV	x					
WI						x
WY						

Figure 6.2

NUMBER OF LAND APPLICATION UNITS BY STATE/TERRITORY



Source: EPA

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NATIONAL ORGANIZATIONS/PUBLICATIONS ON SOLID WASTE AND RECYCLING

Association of State & Territorial
Waste Management Officials
444 N. Capitol St., NW
Washington, D.C. 20001
Kerry Callahan
(202) 624-5828

Council of State Governments
270 Broadway, rm 513
New York, NY 10007
Shelly Dresser
(212) 693-0400

Office of Solid Waste
WH 565, rm 2817
U.S. EPA
401 M St., SW
Washington, D.C. 20460
Eric Males (recycling)
(202) 382-7922

Inform, Inc.
381 Park Ave.
New York, NY 10016
Allen Hershkowitz
(212) 689-4040

National Recycling Coalition, Inc.
5800 Ogden Court
Bethesda, MD 20816-1263
E. Gifford Stack
(301) 320-3535

Biocycle Magazine
Box 351
Emmaus, PA 18049
Jerry Goldstein
(215) 967-4135

Environmental Action Foundation
National Clearinghouse for Deposit
Legislation
1525 New Hampshire Ave., NW
Washington, D.C. 20036
Hawley Truax
(202) 745-4871

Environmental Task Force
1012 14th St., NW, 15th floor
Washington, D.C. 20005
Ruth Lampi (recycling)
Rick Parish (solid waste)
(202) 842-2222

Institute for Local Self-Reliance
2425 18th St., NW
Washington, D.C. 20009
Neil Seldman
(202) 232-4108

Resource Recycling Magazine
PO Box 10540
Portland, OR 97210
Jerry Powell
(503) 227-1319

For a recent state recycling agency directory, a state oil recycling directory, and/or a list of Recycling Centers in the metro Washington, D.C. area write or call Fund for Renewable Energy and the Environment, 1001 Connecticut Ave., NW, suite 638, Washington, D.C., 20036, (202) 466-6880.